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L2	808	l1 with determin$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/09 10:18
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... and the requirements for registration and connection setup **phase**. ... two IPsec endpoints to be **secure** in any ... [**2**] Adrangi, F., Kulkarni, M., Dommety, G., Gelasco, E ...
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... and the requirements for registration and connection setup **phase**. ... between two IPsec endpoints to be **secure** in any ... | [**2**] Bradner, S., "Key words for use in RFCs ...
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Independent submission M. Richardson Internet-Draft SSW Expires ...
... Without **secure** DNS, opportunistic encryption can protect against passive ... it is possible to form **phase** 1 SAs with ... PF_KEY Key Management API, Version **2**", RFC 2367 ...
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1 Synthesis of concurrent system interface modules with automatic protocol conversion generation
Bill Lin, Steven Vercauteren
November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe a new high-level compiler called Integral for designing system interface modules. The input is a high-level concurrent algorithmic specification that can model complex concurrent control flow, logical and arithmetic computations, abstract communication, and low-level behavior. For abstract communication between two communicating modules that obey different I/O protocols, the necessary protocol conversion behaviors are automatically synthesized using ...

2 A protocol conversion software toolkit
J. Auerbach
August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols**, Volume 19 Issue 4

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a "toolkit" (a software function library) for synthesizing conversions between different transport interfaces. The method employed involves classifying these interfaces according to their "transport abstraction type." Each actual interface is converted to or from a canonical form depending on its type, and the library also contains sufficient "abstraction converters" to convert between all of the canonical forms. The overall conversio ...

3 A formal protocol conversion method
K Okumura
August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols**, Volume 16 Issue 3

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The need for the protocol conversion has been recognized with the proliferation of heterogeneous networks. From a formal viewpoint, we regard that problem as generating a protocol which satisfies the properties of the conversion. In this paper, we prove that, one can determine whether a converter exists, for some protocol classes, given protocols in the

form of communicating finite automata, Moreover, we give a construction method for such a converter for those classes, and derive an upper ...

4 A formal method for synthesizing optimized protocol converters and its application to mobile data networks

Zhongping Tao, Gregor v. Bochmann, Rachida Dssouli

December 1997 **M bile Netw rks and Applicati ns**, Volume 2 Issue 3

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As mobile information networks are expanding rapidly, we expect to integrate voice, paging, electronic mail and other wireless information services. Interworking units that perform protocol conversion at the boundaries of different networks will play an important role. In this paper, we propose an efficient algorithm for constructing optimized protocol converters to achieve interoperability between heterogeneous data networks. This algorithm first derives constraints from two given protocol ...

5 An approach for interconnecting SNA and XNS Networks

Kenneth O. Zoline, William P. Lidinsky

September 1985 **ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications**, Volume 15 Issue 4

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

Interest in computer internetworking has resulted from the proliferation of wide area and local area networks. The CCITT, DARPA/DoD, and ISO/ECMA internetworking models, which have become widely accepted for doing this, do not address the pragmatic problem of interconnecting computer networks that are based upon closed-system, vendor-proprietary network architectures. This paper presents an approach for interconnecting private data networks that are based upon IBM's System Network Architect ...

6 Synthesizing communication protocol converter: a model and method

Z. P. Tao, M. Goossens

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available: pdf(749.70 KB) Additional Information: full citation, abstract, references, citings, index terms

A method for synthesizing a protocol converter with a High Level Petri Net (HLPN) model will be presented in this paper. The services provided by the underlying protocols will first be converted, and then the protocol converter will be derived from the service converter and the specifications of the protocols by Petri net transformation. The advantages of the method will be discussed.

7 Protocol conversion—correctness problems

Simon S Lam

August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols**, Volume 16 Issue 3

Additional Information: full citation, abstract, citings, index terms

Consider the problem of providing a logical channel for message exchange between two user processes in a network environment. When is protocol conversion needed? To answer this question, we first define a model of layered architectures. Specifically, three stepwise refinement rules are given. Any architecture that can be obtained by a sequence of applications of the stepwise refinement rules is said to be well-structured. We show that this class of well-structured architectures has several ...

8 Deriving a protocol converter: a top-down method

K. L. Calvert, S. S. Lam

August 1989 **ACM SIGCOMM C mputer C mmunicati n Review , Symp sium**

pr ceedings n C mmunicati ns architectures & pr toc ls, Volume 19 Issue 4

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings, index terms

A protocol converter mediates the communication between implementations of different protocols, enabling them to achieve some form of useful interaction. The problem of deriving a protocol converter from specifications of the protocols and a desired service can be viewed as the problem of finding the "quotient" of two specifications. We define a class of finite-state specifications and present an algorithm for solving "quotient" problems for the clas ...

9 Increasing the portability and re-usability of protocol code

Bobby Krupczak, Kenneth L. Calvert, Mostafa H. Ammar

August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4

Full text available: pdf(283.64 KB) Additional Information: full citation, references, index terms

Keywords: portability, protocol deployment, protocol implementation, protocol subsystem

10 Protocol specifications and component adaptors

Daniel M. Yellin, Robert E. Strom

March 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 2

Full text available: pdf(425.58 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptors, interface definition languages, protocol compatibility, protocol conversion, software composition

11 Efficient gateway synthesis from formal specifications

David M. Kristol, David Lee, Arun N. Netravali, Krishan K. Sabnani

August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols**, Volume 21 Issue 4

Full text available: pdf(754.29 KB) Additional Information: full citation, references, citings, index terms

12 An exercise in deriving a protocol conversion

K. L. Calvert, S. S. Lam

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Additional Information: full citation, abstract, citings, index terms

This paper demonstrates formal techniques useful in solving and reasoning about protocol conversion problems. A simple example problem is solved and the resulting conversion system is shown to have certain desired properties, using the projection paradigm. The example problem is representative of some real-world problems in that the protocols involved are similar in function, and even in structure, but have fundamental differences that render them incompatible in the absenc ...

13 A polynomial algorithm for gateway generation from formal specifications

David M. Kristol, David Lee, Arun N. Netravali, Krishan Sabnani

April 1993 **IEEE/ACM Transacti ns n Netw rking (TON)**, Volume 1 Issue 2

Full text available: pdf(1.11 MB) Additional Information: full citation, references, index terms

14 Interfaces, protocols, and the semi-automatic construction of software adaptors

Daniel M. Yellin, Robert E. Strom

October 1994 **ACM SIGPLAN N tices , Proceedings of the ninth annual conference on Object- riented pr gramming systems, language, and applicati ns**, Volume 29 Issue 10

Full text available: pdf(1.97 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we show how to augment object-oriented application interfaces with enhanced specifications that include sequencing constraints called protocols. Protocols make explicit the relationship between messages (methods) supported by the application. These relationships are usually only given implicitly, either in the code or in textual comments. We define notions of interface compatibility based upon protocols and show how compatibility can be checked, discovering a ...

15 Automated composition of hardware components

James Smith, Giovanni De Micheli

May 1998 **Proceedings of the 35th annual conference on Design automation - Volume 00**

Full text available: pdf(370.96 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

In order to automate design reuse, methods for composing system components must be developed. The goal of this research is to automate the process of generating interfaces between hardware subsystems. The algorithms presented here can be used to generate a cycle-accurate, synchronous interface between two hardware subsystems given an HDL model of each subsystem. These algorithms have been implemented in the POLARIS hardware composition tool and have been used to gen ...

Keywords: emulation, functional simulation, reconstruction, visibility

16 Possibilities of using protocol converters for NIR system construction

Sven Ubik

April 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 2

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, index terms

Volumes of information available from network information services have been increasing considerably in recent years. Users' satisfaction with an information service depends very much on the quality of the network information retrieval (NIR) system used to retrieve information. The construction of such a system involves two major development areas: user interface design and the implementation of NIR protocols.In this paper we describe and discuss the possibilities of using formal methods of prot ...

Keywords: network information retrieval, network information services, protocol conversion

17 Satellite systems for personal communication networks

Fulvio Ananasso, Francesco Delli Priscoli

February 1998 **Wireless Networks**, Volume 4 Issue 2

Full text available: pdf(330.38 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The paper addresses some issues related to Satellite Personal Communication Networks (S-PCNs). The role of satellite communications in that scenario is discussed, and some characteristics of S-PCNs are identified. In addition, the problem of the integration of S-PCNs with the Universal Mobile Telecommunication System (UMTS) is considered. In this respect an original methodology for accomplishing such integration is proposed; such

methodology aims at avoiding complex protocol conversions at ...

18 Automated repair of complex systems by fault compensation
George W. Hart, Samir G. Kelekar
April 1994 **IEEE/ACM Transacti ns on Netw rking (TON)**, Volume 2 Issue 2
Full text available: pdf(1.32 MB) Additional Information: full citation, references, index terms

19 A gateway for linking local area networks and X.25 networks
A. Grant, D. Hutchison, W. D. Shepherd
April 1983 **ACM SIGCOMM Computer Communication Review , Proceedings of the symposium on Communications Architectures & Protocols**, Volume 13 Issue 2
Full text available: pdf(388.74 KB) Additional Information: full citation, abstract, references

This paper describes the hardware and software architecture of a gateway between an Ethernet-style local area network called Strathnet and an X.25 packet switched network (British Telecom's PSS). The hardware is based on a Motorola 68000 processor using the VME bus, and peripheral boards based on an 8-bit 68120/1 processor for the local network and the X.25 interfaces. The software is layered from the low-level executive, through the three X.25 levels and the transport layer, and through the ...

20 Protocol engineering (panel session)
M. T. Liu, Mohamed G. Gouda, Raymond E. Miller, Krishan K. Sabnani
April 1999 **Proceedings of the 19th annual conference on Computer Science**
Full text available: pdf(108.13 KB) Additional Information: full citation

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21 CoWare—a design environment for heterogenous hardware/software systems ☐

K. Van Rompaey, I. Bolsens, H. De Man, D. Verkest

September 1996 **Proceedings of the conference on European design automation**

Full text available: pdf(114.07 KB) Additional Information: full citation, references, citings, index terms

22 Dynamic scheduling and synchronization synthesis of concurrent digital systems under system-level constraints ☐

Claudionor N. Coelho, Giovanni De Micheli

November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(783.93 KB) Additional Information: full citation, abstract, references, citings, index terms

We present in this paper a novel control synthesis technique for system-level specifications that are better described as a set of concurrent synchronous descriptions, their synchronizations and constraints. The proposed synthesis technique considers the degrees of freedom introduced by the concurrent models and by the environment in order to satisfy the design constraints.Synthesis is divided in two phases. In the first phase, the original specification is translated into an alg ...

23 How to invent distributed implementation schemes of an object-based concurrent language: a transformational approach

Etsuya Shibayama

January 1988 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 23 Issue 11

Full text available:

Full text available: pdf(166.90 KB) full citation, abstract, references, citings, index terms

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

25 Contents of the Computer Communication Review 1970–1994

David Oran

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Full text available: pdf(1.75 MB) Additional Information: full citation, index terms

26 Distributed environment: Towards a new distributed programming environment (CORDS)

Jacob Slonim, Patrick Finnigan, Alberto Mendelson, Toby Teorey, Michael Bauer, Paul Larson, Richard McBride, Yechiam Yemini, Shaula Yemini

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings

The main objective of the proposed research described here is to create a prototype environment for developing and managing distributed applications. Its specific focuses are: building extensions to third-generation languages to exploit the process model; developing a new high-level language based on the process model; designing new techniques for recovery and network transport abstractions; network management techniques for distributed applications; modelling and analysis of distributed systems ...

27 A proxy architecture for reliable multicast in heterogeneous environments

Yatin Chawathe, Steve A. Fink, Steven McCanne, Eric A. Brewer

September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

28 Inter-organization networks: implications of access control: requirements for interconnection protocol

D Estrin

August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols**, Volume 16 Issue 3

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, index terms

When two or more distinct organizations interconnect their internal computer networks they form an Inter-Organization Network(ION). IONs support the exchange of cad/cam data between manufacturers and subcontractors, software distribution from vendors to users, customer input to suppliers' order-entry systems, and the shared use of expensive computational resources by research laboratories, as examples. This paper analyzes the technical implications of interconnecting networ ...

29 Interworking between Digital European Cordless Telecommunications and a distributed packet switch

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellstern

February 1995 **Wireless Netw rks**, Volume 1 Issue 1

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.01 MB) terms, review

The Digital European Cordless Telecommunications (DECT) standard specifies an air interface. DECT requires an external infrastructure to transfer information between wireless terminals, and to transfer information between a wireless terminal and a fixed network. The Public Switched Telephone Network, the GSM Cellular Network, Private Branch Exchanges and mobile data networks are all under investigation as DECT backbone networks. In this paper we look to the future and describe interworking ...

30 Distributed environment: High-level language support for programming distributed systems

J. S. Auerbach, D. F. Bacon, A. P. Goldberg, G. S. Goldszmidt, M. T. Kennedy, A. R. Lowry, J. R. Russell, W. Silverman, R. E. Strom, D. M. Yellin, S. A. Yemini

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings

This paper presents a strategy for simplifying the programming of heterogeneous distributed *multiapplications*. A multiapplication is a distributed system or a collection of autonomous applications which occasionally interact, such as a bank and its customers. Our approach is based on designing a machine-and language-independent *process model*, and integrating the abstract primitives for process creation, connection, and communication into programming languages. Our goal is to make i ...

31 Experience papers: Design and validation of a message-passing system

Fuyau Lin

December 1993 **Proceedings of the 7th international workshop on Software specification and design**

Full text available: pdf(719.61 KB) Additional Information: full citation, abstract, references

This paper describes a case study for designing and validating the core of a message-passing communication system. The approach is based on the use of the Petri Net Workbench, the protocol validation language, PROMELA, and its simulator/validator, SPIN. By using these tools, a protocol and underlying hardware for communicating between two heterogeneous computer systems is designed and validated. A reachability analysis is performed which includes a check for live-and dead-lock system states.

32 Design principles for network interconnection

Michel Gien, Hubert Zimmermann

November 1979 **Proceedings of the sixth symposium on Data communications**

Full text available: pdf(873.40 KB) Additional Information: full citation, abstract, references, citings, index terms

With the development of individual computer networks comes the need to interconnect them. Network designers are faced with heterogeneity of networks just as they were previously faced with heterogeneity of computers within a single network. This paper shows that similar structuring techniques, namely multiplexing, switching, cascading, wrapping and layering, can be applied, and that a set of simple principles can be derived which facilitate greatly the design of the interconnecti ...

33 IP Masquerading with Linux: How to enable and configure IP masquerading with Linux

Chris Kostick

July 1996 **Linux Journal**

Full text available: html(19.20 KB) Additional Information: full citation, index terms

34 CIDR

David A. Bandel

December 1998 **Linux J urnal**

Full text available: html(16.85 KB) Additional Information: full citation, abstract, index terms

A Prescription for Shortness of Address Space: This article explains the concept of CIDR and shows you how you can implement it on your network

35 ISDN and Linux--Surfing at Warp Speed
Mark Buckaway
March 1998 **Linux Journal**

Full text available: html(25.66 KB) Additional Information: full citation, abstract, references, index terms

This article presents a detailed tutorial on setting up an ISDN link to the Internet with Linux

36 Interface synthesis: a vertical slice from digital logic to software components
Gaetano Borriello, Luciano Lavagno, Ross B. Ortega
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(337.44 KB) Additional Information: full citation, references, index terms

37 Performance evaluation of connection rerouting schemes for ATM-based wireless networks
Ramachandran Ramjee, Thomas F. La Porta, Jim Kurose, Don Towsley
June 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 3

Full text available: pdf(181.98 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: ATM, handoffs, wireless networks

38 BIST TPG for faults in system backplanes
Chen-Huan Chiang, Sandeep K. Gupta
November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(108.29 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

A built-in self-test (BIST) methodology to test system backplanes by using BIST functionality in each of its constituent boards is presented. Since the configurations of systems change frequently, at the system level, the proposed methodology employs a simple test schedule which can be easily changed whenever the system configuration is changed. Since the boards used in such systems are designed for use in a wide variety of systems, the proposed methodology defines the test objectives to be achi ...

Keywords: BIST circuit, BIST methodology, VME backplane, built-in self test, built-in self-test, edge pin connections, programmable test architecture, simple test schedule, system backplanes, system configuration

39 Protocol discovery in multiprotocol networks
Russell J. Clark, Mostafa H. Ammar, Kenneth L. Calvert
December 1997 **M bile Netw rks and Applicati ns**, Volume 2 Issue 3

Full text available: pdf(422.51 KB) Additional Information: full citation, abstract, references, index terms

Interoperability requires that communicating systems support compatible protocols. Maintaining compatible protocols is problematic in heterogeneous networks, especially in a wireless infrastructure where hosts can move from one protocol environment to another. It

is possible to improve the flexibility of a communication network's operation by deploying systems that support multiple protocols. These multiprotocol systems require support mechanisms that enable users to effectively access the ...

40 Increasing throughput in ATM/B-ISDN using simple buffer management and selective discarding

Samir Chatterjee, Wen Xiao

October 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 5

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, index terms

If the reliability provided by the network is lower than that requested by the application, the error and flow control systems in the end-nodes must make up for the difference. While most applications use retransmission based schemes to recover lost data, ARQ based closed loop techniques may not be suitable for many new applications. Time sensitive information requiring no-loss of data would constitute a major segment of the emerging traffic (interactive web, videophones, CSCW) that typically em ...

Keywords: ATM networks, buffer management, congestion control, forward error correction, internetworking

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41 Constructing application-specific heterogeneous embedded architectures from custom HW/SW applications
Steven Vercauteren, Bill Lin, Hugo De Man
June 1996 **Proceedings of the 33rd annual conference on Design automation**
Full text available: pdf(97.89 KB) Additional Information: full citation, references, citings, index terms

42 An algorithm for synthesis of system-level interface circuits
Ki-Seok Chung, Rajesh K. Gupta, C. L. Liu
January 1997 **Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design**
Full text available: pdf(293.58 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

We describe an algorithm for the synthesis and optimization of interface circuits for embedded system components such as microprocessors, memory ASIC, and network subsystems with fixed interfaces. The algorithm accepts the timing characteristics of two system components as input, and generates a combinational interface (glue logic) circuit. The algorithm consists of two parts. In the first part, we determine the direct pin-to-pin connections in the interface circuit employing a 0/1 ILP formulati ...

Keywords: Interface Synthesis, System-Level Design Issues, Algorithm, Optimization

43 A dual bus approach for LAN interworking with ATM networks
Chiung-Shien Wu, Nen-Fu Huang, Gin-Kou Ma
July 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 3
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, index terms

The interworking between conventional legacy LANs and the ATM network plays an important role in the initial step of the ATM roadmap. This paper presents a dual bus approach for connecting LAN interworking units (IWU) to ATM networks. Several IWUs connecting heterogeneous LANs are configured into a dual bus structure and the end of the buses are directly connected to the ATM ports. Each IWU transforms the connectionless frame from the legacy LAN to fixed-length time-slots on the dual bus. To pro ...

44 Automated assistance for the telemeeting lifecycle
Neil W. Bergmann, J. Craig Mudge

October 1994 **Pr ceedings of the 1994 ACM c nference n C mputer supp rted c perative w rk**

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

We analyse eighteen months of national and international deployment of a prototype telemeeting system supporting synchronous remote meetings which make extensive use of shared documents as well as video and audio conferencing. Logistics of a telemeeting include scheduling people and equipment, document format conversion, pre-sending documents, training, equipment and call setup, and meeting followup. The logistics burden is much larger than expected and can be a barrier to adoption of telem ...

Keywords: CSCW, automated assistance, group work

45 Design of heterogeneous ICs for mobile and personal communication systems

Gert Goossens, Ivo Bolsens, Bill Lin, Francky Catthoor

November 1994 **Proceedings of the 1994 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

Mobile and personal communication systems form key market areas for the electronics industry of the nineties. Stringent requirements in terms of flexibility, performance and power dissipation, are driving the development of integrated circuits into the direction of heterogeneous single-chip solutions. New IC architectures are emerging which contain the core of a powerful programmable processor, complemented with dedicated hardware, memory and interface structures. In this tutorial we will d ...

46 An approach to multi-paradigm controller synthesis from timing diagram specifications

Wolf-Dieter Tiedemann

November 1992 **Proceedings of the conference on European design automation**

Full text available: pdf(692.33 KB) Additional Information: full citation, references, citings, index terms

47 Visualizing packet traces

John A. Zinky, Fredric M. White

October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols**, Volume 22 Issue 4

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, index terms

This paper describes an environment for visualizing packet traces that greatly simplifies troubleshooting protocol implementations. Network management centers routinely collect packet traces to tally traffic statistics and to troubleshoot protocol configuration and implementation problems. Previous efforts have focused on the reliable collection of traces and their statistical interpretation. Display of packet traces was restricted to a textual representation of the raw headers. Our prototy ...

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